Payroll Management Program for TD Construction and Trading Co., Ltd. in Hanoi

Hoàng Văn Quang
Thai Nguyen University of Information and Communication Technology
Thai Nguyen University, Thai Nguyen, Vietnam
student341@ictu.edu.vn

***Abstract*—This undergraduate project examines "Payroll Management Program for TD Construction and Trading Co., Ltd. in Hanoi." The TD Construction and Trading thesis reports a payroll system analysis and a demonstration program. Its source conclusion lists role-based login, Unicode Vietnamese text, and basic add, edit, delete, search, employee, department, position, and salary functions. Payroll joins personnel records, attendance, allowances, and salary rules. This paper treats the application as a student implementation with clear scope limits. Full payroll cases, access-rule checks, and company-user evaluation would be needed before operational effectiveness could be claimed. The work is reported within the scope supported by the original manuscript, without assuming an unrecorded deployment or quantitative benefit.**

***Index Terms*—salary management, C#, SQL, user interface, database, company**

I. Introduction

Payroll joins personnel records, attendance, allowances, and salary rules. The thesis examines an organization's existing workflow and the information needed to support its selected task. It identifies a practical task, selects functions to study or build, and explains why the task matters to the organization concerned. The evidence for the project is its requirements analysis, design material, and described implementation. Intended advantages are distinguished from effects actually established in the manuscript [1].

II. Methods

The student analyzed the selected case, described the relevant records and procedures, and prepared the design or program functions reported in the thesis. The design links input records to the updates, searches, reports, or other functions relevant to the task. Functional descriptions, diagrams, interfaces, and source conclusions are used where present to identify completed work. The manuscript is not treated as evidence of an additional user trial or dataset that it does not document [1].

III. Results

The TD Construction and Trading thesis reports a payroll system analysis and a demonstration program. Its source conclusion lists role-based login, Unicode Vietnamese text, and basic add, edit, delete, search, employee, department, position, and salary functions. The author also says several features remained incomplete due to limited development time. No recruited user group or measured security and usability study is documented. The supported result is the implemented basic functions and the identified need for further completion, not verified performance in routine company use [1].

Supervisor: Vũ Thị Minh Luận.

IV. Discussion

The TD Construction and Trading thesis reports a payroll system analysis and a demonstration program. Its source conclusion lists role-based login, Unicode Vietnamese text, and basic add, edit, delete, search, employee, department, position, and salary functions. The reported functions can be interpreted against the original organizational need, but implementation alone does not establish every intended benefit. This paper treats the application as a student implementation with clear scope limits. Full payroll cases, access-rule checks, and company-user evaluation would be needed before operational effectiveness could be claimed. Complete payroll cases and exception handling would be needed to validate calculated pay. The source provides a case study and a basis for later verification of completeness, reliability, and use [1]. Earlier ICTU undergraduate work by Giàng Mí Nô addressed company payroll management software [10].

V. Conclusion

The student designed a payroll workflow and built a partial program for TD Construction and Trading. The original conclusion reports role-based access, a simple Vietnamese interface, and basic records and salary functions, while acknowledging unfinished work. It does not establish a formal user trial or complete security verification. This paper treats the application as a student implementation with clear scope limits. Full payroll cases, access-rule checks, and company-user evaluation would be needed before operational effectiveness could be claimed [1].

References

[1] Hoàng Văn Quang, "Payroll Management Program for TD Construction and Trading Co., Ltd. in Hanoi," internal undergraduate thesis (original in Vietnamese), Thai Nguyen University of Information and Communication Technology, 2014.
[2] Lê Anh Cường – Nguyễn Thị Huyền – Nguyễn Thị Mai (2004), Phương pháp và kỹ năng quản lý nhân sự, Nhà xuất bản Lao động xã hội
[3] Thạc Bình Cường (1995), Phân tích thiết kế hệ thống thông tin, Nhà xuất bản Đại học bách khoa Hà Nội

[4] Nguyễn Văn Điềm và Nguyễn Ngọc Quân (2005), Giáo trình quản trị nhân lực, Trường Đại học kinh tế quốc dân, Nhà xuất bản Lao động xã hội
[5] Nguyễn Thị Đông (2007), Giáo trình lý thuyết hạch toán kế toán, Nhà xuất bản tài chính- Hà Nội
[6] Nguyễn Ngọc Bình Phương, Thái Thanh Phong (2006), Các giải pháp lập trình Csharp, Nhà xuất bản Giao thông vận tải
[7] Trần Thành Trai (1996), Phân tích và thiết kế hệ thống thông tin quản lý, Nhà xuất bản trẻ
[8] Dương Quang Thiện (2005), Lập trình Visual C# như thế nào? Tập 1,2,3, Nhà xuất bản Tổng hợp Tp HCM
[9] Ngô Trung Việt (1995), Phân tích và thiết kế tin học hệ thống quản lý kinh doanh nghiệp vụ, Nhà xuất bản Giao thông vận tải
[10] Giàng Mí Nô, "Payroll Management Program for Trung Duc Informatics, Services and Trading Co., Ltd. in Thai Nguyen," internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2013.